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VI Semester B.Sc. Degree Examination, September - 2021

**ZOOLOGY****Animal Physiology and Techniques in Biology  
(CBCS Scheme Freshers 2020-21 Onwards)****Paper : VIII****Time : 3 Hours****Maximum Marks : 70****Instructions to Candidates:**

1. Draw neat labelled diagrams wherever necessary.
2. Answer should be completely in English

**PART - A****I. Answer the following in one word or one sentence.****(10×1=10)**

1. Expand CCK.
2. Name the metallic ion present in Haemoglobin.
3. What is Deamination?
4. Name any one ear ossicle.
5. Name the birth hormone.
6. What is anaemia?
7. Give an example for anadromous migratory fish.
8. Mention any two fixative used in microtechnique.
9. Define Fractionation.
10. What is magnification power?


**PART - B****II. Answer any FIVE of the following :****(5×3=15)**

11. Write a note on haemocyanin.
12. Classify the animals based on the type of main nitrogenous waste product.

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13. Define Homeostasis citing a suitable example.
  14. What is neuro-secretion? Give an example.
  15. Briefly Explain haemodialysis.
  16. Give the principle of centrifugation.
  17. What is endoscopy? Give any two applications.

**PART - C****III. Answer any FIVE of the following.****(5×5=25)**

18. Explain symbiotic digestion in ruminants.
19. Explain negative feedback mechanism with respect to thyroid gland.
20. Give an account of acromegaly.
21. Discuss the hormonal control of metamorphosis in insects.
22. Give the causes, symptoms and prevention of diabetes mellitus.
23. Write the principle and applications of immunoassay.
24. What is autoradiography? Mention the applications.

**PART - D****IV. Answer any TWO of the following.****(2×10=20)**

25. Give any account of physico - chemical aspects of muscle contraction.
  26. Explain CO<sub>2</sub> transport.
  27. Name any five hormones of adenohipophysis and mention one function for each.
  28. Give the principles and applications of:
    - a. Chromatography.
    - b. Micrometry.
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